

Date: Fri, 19 Feb 93 02:07:57 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #232
To: Info-Hams

Info-Hams Digest Fri, 19 Feb 93 Volume 93 : Issue 232

Today's Topics:

 [ANS] Real Hams Pass British Exams?
 ARRL Insurance
 Bearing & Distance
 Bikers Ham It up
 Cellular Safety
 Daily Solar Geophysical Data Broadcast for 18 February
 DARA signs three year agreement with Hara
 Delivery Failure Report (2 msgs)
 Lightening arrestor for random wire SWL antenna (2 msgs)
 Lin pot type AB?
 Looking for info on the Kenwood TS50-S rig
 MOD Archive!!!!!!!
 packet/BBS addressing question
 Re: Looking for info on the Kenwood TS50-S rig
 SAREX UPDATE
 Tapping into AT+T ocean communications cables
 Yeadu FT-5100 questions

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 19 Feb 93 02:29:02 GMT
From: news-mail-gateway@ucsd.edu
Subject: [ANS] Real Hams Pass British Exams?
To: info-hams@ucsd.edu

>friends who are definately not British yet hold a G callsign.

Yes that's possible. You can get a G-zero call based on what you hold in the US PROVIDED you have an address in the UK for it to be sent to. For further details, contact N3KIP who is a Brit (G8VUK) who has all the knowledge on the rules.

Date: 18 Feb 93 10:46:41 EDT
From: usc!sdd.hp.com!ncr-sd!ncrcae!ncrhub2!ncrgw2!psinntp!
arrrl.org@network.UCSD.EDU
Subject: ARRL Insurance
To: info-hams@ucsd.edu

In rec.radio.amateur.misc, tener@cs.widener.edu (Stuart Tener) writes:

>Call the ARRL on there little publicized 1-800 number.
>
>1-800-323-2106
>

Nope. Negative. Uh-uh. We have a few 800 numbers in the building for VERY specific purposes which we will not allow people to abuse. But that number isn't even in Connecticut. My guess is that it rings at the Wohlers Co. insurance administrator's offices.

			Deputy Manager, Field Services, ARRL.	
		_ _ _	The ARRL Amateur Radio Emergency Service, the ARRL	
	uck		urder	National Traffic System, The Amateur Auxiliary to
-----			the FCC's Field Operations Bureau, the ARRL	
	KY1T		Field Organization and the ARRL Monitoring System.	

lhurder@arrrl.org Prodigy - MGTS39A, BIX - ARRL,
MCI Mail - RPALM, MCI Mail - "ARRL HQ", America On Line - "ARRL HQ"
Compuserve - 70007,3373 (ARRL HQ) -- Genie ARRL.HQ

Date: 18 Feb 93 22:58:14 EST
From: sdd.hp.com!nigel.msen.com!ilium!sycom!jh25s56@network.UCSD.EDU
Subject: Bearing & Distance
To: info-hams@ucsd.edu

In an article, MROWEN%STLAWU.BITNET@cunyvms.cuny.edu (Michael Owen W9IP) writes:
>Emil Pocock, W3EP, the editor of The World Above 50 MHz in QST,
>has asked me about bearing & distance calculations. It's easy to

>compute them on a spherical Earth, but somewhat more complicated on
>the "real" non-spherical Earth. I have offered to write a program for
>Emil and his readers that calculates bearing & distance, taking
>into account the shape of the Earth. He wants it for the sake of
>calculating distance-records on VHF. Others might find it useful
>for more precise beam heading at microwaves, for example.
>

>Can anyone out there direct me to the equations necessary for this
>little job?
>

>Thanks -
>

>Michael Owen W9IP
>MROWEN@STLAWU

I don't have the more recent editions but there used to be (8 years ago or so) a discussion on this in the ARRL Antenna Handbook. I wrote a SR-52 program to do the calculations once, but had accuracy problems. You are working with very small solid angles and need a lot of digits precision.

Date: Fri, 19 Feb 1993 01:48:25 GMT
From: usc!rpi!usenet.coe.montana.edu!news.u.washington.edu!
microb0.biostat.washington.edu!moseley@network.UCSD.EDU
Subject: Bikers Ham It up
To: info-hams@ucsd.edu

In article <1993Feb18.222146.5085@ttinews.tti.com>
paulb@harley.tti.com (Paul Blumstein) writes:

>I have been amazed at the amount of overlap between the motorcycle
>group and the amateur radio group. I see a lot of call signs in the mc
>group and a lot of mc references in the .sig's of the amateur radio
>group. i even read an article about a guy who mounted a
>telegraph-style key on his handlebars so he could send morse code as he
>rode.

.._. _... ___ __ !

I can't copy CW and chew gum at the same time, much less do clutchless shifts. However, before I put Fiamms on the Concours, I used to beep out a .._. _... when I'd pass someone with a call sign license plate. I hadn't heard of the club, thanks for the info.

Steve
DoD # 1951, COG, HOG, AMA, N7CBS

---... ..

```
-----
Steve L. Moseley                                moseley@u.washington.edu
Microbiology SC-42                             Phone: (206) 543-2820
University of Washington                       FAX: (206) 543-8297
Seattle, WA 98195
-----
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Date: Wed, 17 Feb 1993 15:35:13 GMT
From: usc!rpi!news.columbia.edu!psinntp!psinntp!balltown!perley@network.UCSD.EDU
Subject: Cellular Safety
To: info-hams@ucsd.edu

In article <Pine.3.05.9302151902.A5630-a100000@uafhp.uark.edu> Peter Laws
<plaws@uafhp.uark.edu> writes:

>Another nit to pick: cell phones transmit all the time while the other 2
>types of radio listed are intermittent. Some kind of time measurement
>should be listed to make the figures listed more useful (ie. W/kg/s).

on the plus side, cell phones will automatically cut the power back
when it's not needed. You can reduce your exposure just by calling
from good locations.

-don perley - ke2tp
--
perley@balltown.cma.com

Date: 19 Feb 93 09:37:43 GMT
From: news-mail-gateway@ucsd.edu
Subject: Daily Solar Geophysical Data Broadcast for 18 February
To: info-hams@ucsd.edu

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 049, 02/18/93
10.7 FLUX=126.0 90-AVG=138 SSN=134 BKI=1114 4323 BAI=012
BGND-XRAY=B5.5 FLU1=4.3E+05 FLU10=1.4E+04 PKI=1123 4423 PAI=011
BOU-DEV=005,006,005,041,044,028,018,023 DEV-AVG=021 NT SWF=03:059
XRAY-MAX= M4.0 @ 0307UT XRAY-MIN= B4.2 @ 1600UT XRAY-AVG= C2.0
NEUTN-MAX= +003% @ 2125UT NEUTN-MIN= -001% @ 1950UT NEUTN-AVG= +0.3%
PCA-MAX= +0.1DB @ 2245UT PCA-MIN= -0.8DB @ 1700UT PCA-AVG= -0.1DB
BOUTF-MAX=55414NT @ 1502UT BOUTF-MIN=55386NT @ 1848UT BOUTF-AVG=55404NT
GOES7-MAX=P:+100NT@ 1758UT GOES7-MIN=N:-003NT@ 0922UT G7-AVG=+079,+041,+009

GOES6-MAX=P:+117NT@ 1757UT GOES6-MIN=E:-002NT@ 1832UT G6-AVG=+089,+012,+052
FLUXFCST=STD:130,135,135;SESC:130,135,135 BAI/PAI-FCST=015,030,020/015,030,020
KFCST=3333 3333 3555 4334 27DAY-AP=005,003 27DAY-KP=0211 1223 2000 0011
WARNINGS=*MAJFLR;*SWF;*PROTON;*PCA;*GSTRM;*AURMIDWCH
ALERTS=**MINFLR:M4.0/2B@0308;**SWEEP:II=3,IV=1@0308;**MINFLR:M1.6/1N@1003;
MINFLR:M1.1/1B@1106;SWEEP:IV=3@1106;**TENFLR:280SFU@0316,DUR=12;
TENFLR:330SFU@1106UTC;SWEEP:II=2@1135UTC
!!END-DATA!!

Date: Wed, 17 Feb 1993 22:22:27 GMT
From: swrinde!cs.utexas.edu!uwm.edu!linac!pacific.mps.ohio-state.edu!cis.ohio-
state.edu!udecc.engr.udayton.edu!blackbird.afit.af.mil!jmillier@network.UCSD.EDU
Subject: DARA signs three year agreement with Hara
To: info-hams@ucsd.edu

News item from local TV news last weekend:

DARA signs three-year agreement to use Hara Arena for the Hamvention,
multi-million dollar impact on Miami Valley...etc., etc.

There. That ought to put the yearly Hara rumors to rest.

;-)

73, Jeff

--
Jeff Miller, NH6ZW/N8, AFA1HE (ex WD6CQV, AFA8JM, AFA1DO)
AFIT School of Engineering, Wright-Patterson AFB, OH
"This class (Formal Methods in SW Engineering) redefines the term "auger
in" -- nameless AFIT student. Help eliminate FOD in our lifetime.

Date: 19 Feb 93 03:34:54 GMT
From: news-mail-gateway@ucsd.edu
Subject: Delivery Failure Report
To: info-hams@ucsd.edu

From: NAME: Mail Postmaster
FUNC:
TEL: <POSTMASTER AT NEWPRTA1 at DOHENY at
TUS>
To: "Info-Hams@UCSD.Edu"@DECWRL@MRGATE

ALL-IN-1 was unable to deliver your message dated to

"green.richard"

- no such ALL-IN-1 account;

on node NEWPRT

The subject of the message was :
Info-Hams Digest V93 #222

Date: 19 Feb 93 07:17:47 GMT
From: news-mail-gateway@ucsd.edu
Subject: Delivery Failure Report
To: info-hams@ucsd.edu

From: NAME: Mail Postmaster
FUNC:
TEL: <POSTMASTER AT NEWPRTA1 at DOHENY at
TUS>
To: "Info-Hams@UCSD.Edu"@DECWRL@MRGATE

ALL-IN-1 was unable to deliver your message dated to

"green.richard"

- no such ALL-IN-1 account;

on node NEWPRT

The subject of the message was :
Info-Hams Digest V93 #223

Date: Fri, 19 Feb 1993 00:13:21 GMT
From: swrinde!gatech!wa4mei!ke4zv!gary@network.UCSD.EDU
Subject: Lightning arrestor for random wire SWL antenna
To: info-hams@ucsd.edu

In article <C2nsnI.D54@icon.rose.hp.com> greg@core.rose.hp.com (Greg Dolkas) writes:

>Why not use one of those Twinlead TV type lightning arrestors, connecting
>your antenna wire to one terminal. Due to the volume, they're lots cheaper
>than a coax unit, and are designed for receive-only.

Most of these units are just spark gaps. Your radio will fry before they arc over. They are good for keeping your TV or radio from catching on fire from a lightning hit, but solid state equipment is a faster fuse than the spark gap. You need something that can clamp in 2 ns to protect the equipment. That's what the gas tube units, if they're designed right, are supposed to do. Simple MOVs will often work for mild induced surges, but when they blow your protection is gone.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

Date: Thu, 18 Feb 1993 20:12:38 GMT
From: usc!sdd.hp.com!hpscit.sc.hp.com!hplextra!hpl-opus!hpnmdla!
alanb@network.UCSD.EDU
Subject: Lightening arrestor for random wire SWL antenna
To: info-hams@ucsd.edu

In rec.radio.amateur.misc, atul@nynexst.com (Atul Chhabra) writes:

>I recently strung a 50 ft random wire antenna (Radio Shack# 278-758) for my
>Sony ICF-2010 receiver. The antenna wire runs from the roof of the house to
>a nearby tree. There is no cold water pipe near the receiver. Therefore, I
>installed an 8 ft ground rod (Radio Shack# 15-529) outside the window. I am
>running a 20-30 feet long 8 gauge aluminium ground wire (Radio Shack# 15-035)
>from the ground rod to the receiver. I am feeding the antenna and ground wires
>into the AM antenna socket of the 2010 radio. I am not using a coax cable
>between the antenna and the receiver.

>I want to use a lightening arrestor to protect the equipment. The best I
>have seen so far is the Alpha Delta "LT" transi-trap surge protector

I have heard that the Alpha Delta units are pretty good. I used to know
W8AD when he was Sales Manager at RL Drake Co.

The best place to install the arrestor is OUTSIDE the house. Connect the
arrestor ground to the ground rod with a short, fat wire. Connect the
arrestor to the radio with coax.

AL N1AL

Date: 18 Feb 93 22:50:53 EST
From: swrinde!cs.utexas.edu!qt.cs.utexas.edu!yale.edu!nigel.msen.com!ilium!sycom!
jh25s56@network.UCSD.EDU
Subject: Lin pot type AB?
To: info-hams@ucsd.edu

In an article, perry@hpfco.FC.HP.COM (Perry Scott) writes:

>> A while ago, I asked if anyone knew what a 'linear potentiometer, type
>> AB' might be. It's the 'type AB' part that puzzles me. I found it in a
>> parts list for an RF noise bridge in then ARRL Antenna book.
>

>Probably Allen-Bradley, a manufacturer of particularly sturdy
>potentiometers. These are the ones you usually see at hamfests, because
>they outlast the usefulness of the equipment they are used in.
>

>Perry
>AA0ET

Naahh. It's a code for the resistance taper (ohms change versus rotation).
AB is completely linear. There are log tapers, log log tapers, reverse log
etc. for special applications. Log tapers are commonly used for volume
controls. It's hard to find a linear pot.

Date: 18 Feb 93 23:17:19 GMT
From: usc!isi.edu!gremlin!cam.nad.northrop.com!jmeacham@network.UCSD.EDU
Subject: Looking for info on the Kenwood TS50-S rig
To: info-hams@ucsd.edu

I also would like info on the new Kenwood TS50-S supper small HF rig.
I have seen the ad but can't find any more info.
I would like to use it for a mobile rig. I now have a Yeasu 747
using the remote front panel kit as my mobile rig. The new Kenwood
looks like a lot of radio in a very small box.

I wonder could it be a Toyota killer

John W. Meacham jmeacham@cam.nad.northrop.com | __o o
Operations Productivity, Northrop Aircraft Division | _'\<,_ </_
One Northrop Av, Hawthorne, CA 90250 m/s 5982/23 | (*)/ (*) -\\\

Tel: (310) 332-9196

Fax: (310) 332-3396 |73 from KJ6TK /_

Date: Thu, 18 Feb 1993 22:15:44 GMT
From: bcstec!muszynsk@uunet.uu.net
Subject: MOD Archive!!!!!!
To: info-hams@ucsd.edu

I've seen all kinds of requests for mods and I thought I might let some people in on an archive I found. I was searching with an archie server and ran across:

garfield.catt.ncsu.edu (152.1.43.23)

login is the usually username: anonymous and password: <your email address>. Take a look, lots of good looking stuff!

Rick Muszynski N7WLL muszynsk@bcstec.ca.boeing.com

Date: 19 Feb 1993 01:37:32 GMT
From: sun-barr!news2me.EBay.Sun.COM!exodus.Eng.Sun.COM!appserv.Eng.Sun.COM!
concertina!fiddler@ames.arpa
Subject: packet/BBS addressing question
To: info-hams@ucsd.edu

(I tried asking this last week, but our mailer seems to have died temporarily...)

If I were to be set up for operating packet on 2m, and someone I wanted to communicate with was also set up for it...

How do I get my message(s) from here to there? Do I have to determine a repeater path from here to there, or do I just send it into the ether (and hope)?

A complete description of the process would be nice. A pointer to an ARRL (or other) publication would be OK. email is fine.

thanks

seh

--

| Some things are too important not to give away |
| to everybody else and have none left for yourself. |
|----- Dieter the car salesman-----|

Date: Fri, 19 Feb 1993 01:37:39 GMT
From: sdd.hp.com!hpscit.sc.hp.com!hplextra!hpcss01!hpcupt1!bobh@network.UCSD.EDU
Subject: Re: Looking for info on the Kenwood TS50-S rig
To: info-hams@ucsd.edu

> I just saw the ad for the new Kenwood TS50-S micro HF rig on the back
> of 73. Anyone have any info on it? It looks like a nice small HF rig
> (about the size of a large mobile 2-meter rig), apparently with a
> built-in tuner, 100 watts. AES quoted a price of \$1039, but they haven't
> seen one yet.

HRO in Sunnyvale, CA has them. It definitely is *small*. I was told
that the tuner is external, a ~\$300 option. I didn't get a chance to
play with it as there was quite a crowd around it... All in all it
looked pretty impressive.

Bob Headrick WA70VU
bobh@cup.hp.com

Date: 18 Feb 93 15:07:08 EST
From: swrinde!gatech!hubcap!ncrcae!ncrhub2!ncrgw2!psinntp!
arrl.org@network.UCSD.EDU
Subject: SAREX UPDATE
To: info-hams@ucsd.edu

Shuttle Amateur Radio EXperiment (SAREX) Update - More hams to fly.

STS-55, Space Shuttle Columbia, welcomes aboard their fifth Amateur
Radio-licensed crew member. Charlie Precourt, Mission Specialist,
just received call letters, KB5YSQ. Originally set for launch
February 25, STS-55 has been delayed for a mid-March launch.

Steve Oswald, STS-56 Space Shuttle Discovery Pilot, also recently
passed his Amateur Radio exam and received call letters KB5YSR.

This makes the second all-ham crew in history. The first occurred with Ken Cameron's STS-37 flight in April 1991. Ken will be commanding STS-56.

No word has been given regarding new launch dates for STS-56 and STS-57. We will bring you further details as we receive them.

For general information on SAREX, and how you might become involved, please contact the ARRL Educational Activities Department (below).

Posted by:

Robert J Inderbitzen, NQ1R	voice: (203) 666-1541 X213
Educational Activities Department	fax: (203) 665-7531
American Radio Relay League	email: rinderbi@arrl.org
225 Main Street	ARRL BBS: (203) 666-0578
Newington, CT 06111 USA	CompuServe: 70007,3373.

Date: Thu, 18 Feb 1993 20:06:26 GMT
From: sdd.hp.com!hpscit.sc.hp.com!hplextra!hpl-opus!hpnmdla!alanb@network.UCSD.EDU
Subject: Tapping into AT+T ocean communications cables
To: info-hams@ucsd.edu

In rec.radio.amateur.misc, joe@taal.stanford.edu (Joe Dellinger) writes:

>AT+T has some semi-abandoned wire cables spanning the Pacific that the
>University of Hawaii would like to use to bring back data from remote
>ocean-floor instruments, such as seismometers. There's one catch:
>we aren't allowed to "damage" (ie physically penetrate) the cable.

>We envision using a remote underwater vehicle to attach instruments
>to the cable; some sort of magnetic coupling will then be used to induce a
>signal in the coax in the range 100KHz-1MHz. ...

>The cables themselves are two-conductor coaxial cables. The inner
>conductor is a copper sheath around an iron core (the strength member). The
>outer conductor is a continuous copper tube. ...

>We are
>using something like half of a torus, with a diameter slightly larger than
>the diameter of the cable. For this shape we have found we are able to
>generate the largest signal in the coaxial cable with the cable on the
>outside of the half-torus, slightly protruding from one of the ends of the
>semicircle.

I don't understand the above description. I would think you would get

maximum coupling by using a full toroid with the coax cable going through the hole in the center of the toroid. You would have to split the toroid in half to get it around the cable and then press it back together again. This should not affect the magnetic properties.

AL N1AL

Date: Fri, 19 Feb 1993 07:45:29 GMT
From: usc!wupost!spool.mu.edu!agate!iat.holonet.net!bwilkins@network.UCSD.EDU
Subject: Yeasu FT-5100 questions
To: info-hams@ucsd.edu

:
: Oh.. got my MW-1 wireless microphone for it today too. Can't use it in
: the house because there's too much RF noise here but works great in the
: car. And the MW-1 duplicates ALL front panel controls with the exception
: of the power button. Pretty cool stuff. Now I don't have to reach down
: and fiddle with the knobs....
:
: Tony Pelliccio

Would you expand your comments a little...what do you mean too much rf noise?

What is the cost? How does it interface with the radio? Thanks bob

--

Bob Wilkins n6fri voice 440.250+ 100pl san francisco bay area
bwilkins@holonet.net packet n6fri @ w6pw.#nocal.ca.usa.na

Date: Fri, 19 Feb 1993 05:19:17 GMT
From: usc!wupost!cs.uiuc.edu!vela!w8hd!kenh@network.UCSD.EDU
To: info-hams@ucsd.edu

References <1lsqjeINNk3k@chnews.intel.com>, <1993Feb17.143657.20164@seas.gwu.edu>,
<C2MK03.32@news.cso.uiuc.edu>
Subject : Re: FAA Radar power?

jtg0707@uxa.cso.uiuc.edu (Jui Tien) writes:

>biby@seas.gwu.edu (Rich Biby) writes:
>.....deleted.....
>>Yah, 7.5 Megawatts. But don't forget about gain!
>>We were working against a zoning board regarding RF
>>expsoure and had to check a couple of these things

>>out completely. My mouth just hung open when I found
>>out it was 6-some-odd Megawatts with about 25 dB gain!

>>I think I would freek out if I was ever close enough
>>to one to see it with my own eyes...

>Is there any major health hazards working with equipments at that frequency
>range? Anyone out there have any experiences with radar equipments?
>Safety tips. (At much lower power, of course.:~))

Our firm services such installations for the FAA, and the instantaneous
power is, as stated, on the order of 6 megawatts. Frequency varies due to
the over-the-horizon interference problem with other radars.

There are many interlocks on the approach to the radome, including gate
latch interlocks and stairstep interlocks. You would NOT want to be in
that area (and at that level) when that unit is active.

Often when doing radome repairs we station a rigger on the sail itself,
and merely turn it by hand to put him in the position he needs to be.
(the unit being off, BTW).

--

kenh@w8hd.org

Ken Hoehn - Teletech, Inc.

P.O. Box 924

Dearborn, MI 48121

Compuserve: 70007,2374

FAX: (313) 562-8612

VOICE: (313) 562-6873

End of Info-Hams Digest V93 #232
